



山东天一化学股份有限公司  
SHANDONG TIANYI CHEMICAL CORPORATION

TEL: 86-13402268900 [Email: arrick@tychemgroup.com](mailto:arrick@tychemgroup.com) FAX:86-536-8865-639

## Safety Data Sheet

Zinc Borate

Revised Date: 03/28/2015

### 1. Identification

**Product identifier:**

Trade name: **TY CHEM TY208**

Substance name: Zinc Borate

CAS No.: 1332-07-6

Index Number: Not available

REACH registration No.: Not Available

**Recommended use of the chemical and restrictions on use**

Recommended use of the substance or mixture: **Flame Retardant**

Restrictions on use: There are no known uses of this chemical that are specifically advised against.

Identification on the label/Trade name: Zinc Borate(TY CHEM 208)

**Details of the supplier of the safety data sheet:**

Supplier(Only representative): Chemical Inspection & Regulation Service Limited

Supplier(Manufacturer): SHANDONG TIANYI CHEMICAL CORPORATION

Address: NO.171 YUQING EAST STREET, WEIFANG, SHANGDONG,CHINA

Contact person(E-mail): arrick@tychemgroup.com

Telephone: +86-536-8863639

Fax: +86-536-8865639

**Emergency telephone number:**

+353 41 980 6916

Available outside office hours?

YES

NO  x

### 2. Hazard(s) Identification

**EMERGENCY OVERVIEW**

Appearance: white solid.



Warning

May cause eye and skin irritation.

May cause respiratory and digestive tract irritation.

The toxicological properties of this material have not been fully investigated.

**Target Organs:** No data found.

**Potential Health Effects**

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Printing date:** 01/09/2014

**Version** 1.2

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**Ingestion:** May cause irritation of the digestive tract.

The toxicological properties of this substance have not been fully investigated.

**Inhalation:** May cause respiratory tract irritation.

The toxicological properties of this substance have not been fully investigated.

**Chronic:** Not available. Little information is available on the health effects of Zinc Borate.

However, extremely high exposures to Borate compounds can cause serious poisonings.

### 3. Composition/information on ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Zinc Borate	N/A	1332-07-6	N/A	99%

### 4. First-aid measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:** Never give anything by mouth to an unconscious person.

If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Get medical aid.

**Inhalation:** Remove from exposure and move to fresh air immediately.

If not breathing, give artificial respiration.

If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

### 5. Fire-fighting and measures

#### **General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Substance is nonflammable. Runoff from fire control or dilution water may cause pollution.

#### **Extinguishing Media:**

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

**Flash Point:** Not available.

**Autoignition Temperature:** Not available.

#### **Explosion Limits**

**Lower:** Not available.

**Upper:** Not available.

### 6. Accidental release measures



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### **Personal precautions, protective equipment, and emergency procedures:**

No action shall be taken involving any personal risk or without suitable training. Remove all sources of ignition. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Avoid dust formation. Avoid inhalation of vapors/dust. Avoid contact with eyes, skin and clothing. Put on appropriate personal protective equipment.

### **Methods and materials for containment and cleaning up:**

Remove unnecessary people. Avoid raising dust for powder substance as released material may pose a dust explosion hazard if it becomes airborne in the presence of an ignition source. Pick up with inert absorbent material (e.g. sand, earth etc.). Place into approved waste containers. Wear suitable protective equipment. Should not be released into the environment. Collect the spilled product into suitable containers which must be tightly sealed and properly labeled. Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater..

## **7. Handling and storage**

### **Handling:**

Wash thoroughly after handling.

Remove contaminated clothing and wash before reuse.

Use with adequate ventilation.

Minimize dust generation and accumulation.

Avoid contact with eyes, skin, and clothing. Keep container tightly closed.

Avoid ingestion and inhalation.

### **Storage:**

Keep container closed when not in use.

Store in a tightly closed container.

Store in a cool, dry, well-ventilated area away from incompatible substances.

## **8. Exposure controls/personal protection**

### **Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

### **Exposure Limits:**

None listed

### **Personal Protective Equipment:**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles and face protection.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:** Wear appropriate respirator to avoid irritation.

## **9. Physical and chemical properties**

**Physical State:** Solid

**Appearance:** white

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**Odor:** odorless

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:** Not available.

**Decomposition Temperature:** Not available.

**Solubility:** Not available.

**Specific Gravity/Density:**2.7 (solid)

**Molecular Formula:** Not available.

**Molecular Weight:** Not available.

## 10. Stability and reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, dust generation, excess heat, strong oxidants.

**Incompatibilities with Other Materials:** Oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, zinc oxides.

**Hazardous Polymerization:** Has not been reported

## 11. Toxicological information

**RTECS#:**

**CAS#** 12767-90-7

**LD50/LC50:** Not available.

**Carcinogenicity:** No information found

**Epidemiology:** No information found.

**Teratogenicity:** No information found.

**Reproductive Effects:** No information found.

**Mutagenicity:** No information found.

**Neurotoxicity:** No information found.

## 12. Ecological information

**Ecotoxicity:** No information available

**Persistence and degradability:**

Not readily biodegradable

**Bioaccumulative potential:**

Did not bioconcentrate in fish(Cyprinus carpio) when tested over an 8 week period.

**Mobility in the soil:**

No information available

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### Other adverse effects:

No information available

## 13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

## 14. Transportation information

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class: This product is not regulated as a hazardous material or dangerous goods for Transportation.

Packing group: Not applicable

Marine pollutant (Yes/No): No

Transportation in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Product is not supplied in bulk.

Special precautions for user: See Section 7

## 15. Regulatory information

### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

### Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

### Hazard Symbols:

Not available.

## 16. Declare Company

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event, we shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.